Date:

Wednesday, 22/04/2009 3:12:40 PM

User: Julie Dawson

Process Sheet

Customer

: CC-DAR01 Dart Aerospace Ltd.

Job Number

Estimate Number

: 47384 : 10804

P.O. Number

This Issue

: 22/04/2009 Prsht Rev.

: NC

: // First Issue

Previous Run

: 00015

S.O. No. :

Type

: PURCHASED PARTS

Project Number **Drawing Revision**

Drawing Number

Drawing Name

Part Number

Material

Due Date : 29/04/2009

: D3121-19

: D312119

: R09-040

Qty:

4 Um:

Each

Checked & Approved By

Comment

Written By

Additional Product

Job Number:



Seq. #:

1.0

Machine Or Operation:

Description: Bearing

D312119



Comment: Qty.: 1.0000 Each(s)/Unit

Total:

4.0000 Each(s)

Bearing

Qty 4 of original B20280

2.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

-Re-identify the bearings with the new batch # and return to stock

-Location 235

FINAL INSPECTION/W/O RELEASE

3.0 QC21

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Page 1

Dart Aerospace Ltd

W/O:			W	ORK ORE	DER CHANG	GES		·			
DATE STEP		PR	OCEDURE CHA	ANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								" ·			
								·····	-		
Part No	:	PAR #:	Fault Cate	egory:		NC	R: Yes	No DQ	A :	Date: _	
Resolution:		esolution:	Disposition	on:		QA:	N/C CI	osed:	sed: Date:		
NCR:			WORK ORD	ER NON-	CONFORM	IANCE	(NCR)		VII /	· · · · · · · · · · · · · · · · · · ·
DATE	STEP	Description of NC		Corrective		ction B		Verific		Approval	Approval
	JOIL!	Section A	Initial Chief Eng	Actio	n Description Chief Eng		Sign & Date			Chief Eng	QC Inspector
					_		•				

NOTE: Date & initial all entries



DESIGN A DRAWN BY		DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHECH	KED_	APPROVED_	DRAWING NO. REV. E
	#		D3121 SHEET 1 OF 10
DATE			TITLE SCALE
07.1	11.07		BRACKET ASSEMBLY 1:2
Α		02.04.15	NEW ISSUE
В		03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146
U		04.02.17	ADD CLEARANCE; USE -241 BEARING
D		06.05.17	D3121-25 CAP WAS 1.024, NOW 1.000
E		07.11.07	ADD TOLERANCE TO 0.032 (DETAIL B)



- D3121-2	21 BOLT (1)
D3121-2		
BEARING	ASSEMBLY	(1)

D3121-041 BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-33)

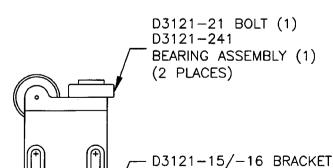


D3121-21 BOLT (1) D3121-241 BEARING ASSEMBLY (1) (2 PLACES)

D3121-13/-14 **BRACKET**

D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)



D3121-045 (SHOWN) / D3121-046 (OPPOSITE) BRACKET ASSEMBLY

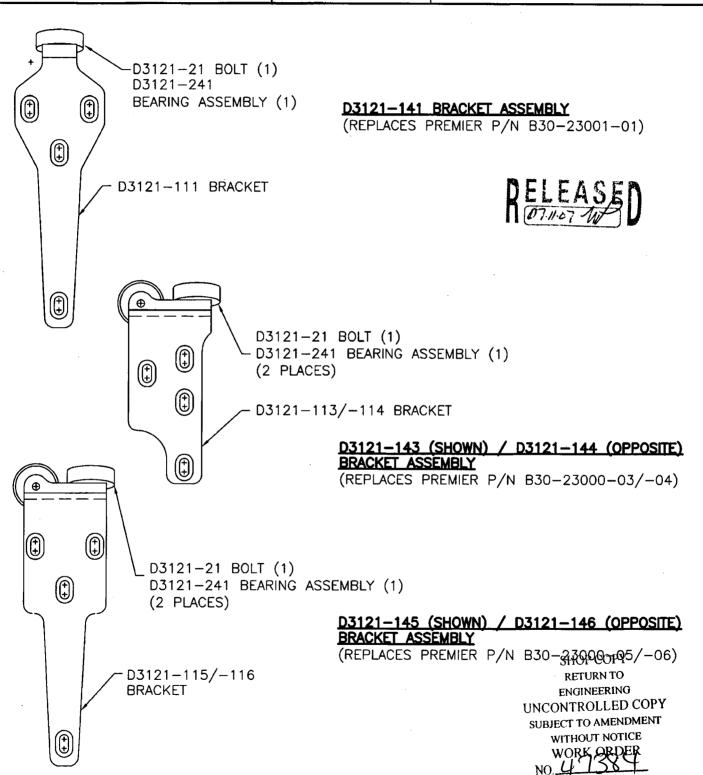
(REPLACES PREMIER P/N B30-23000-35/-36)

SHOP COPY **RETURN TO ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORPER

Copyright @ 2002 by DART AEROSPACE LTD



DESIGN	DRAWN BY	DART AEROSP HAWKESBURY, ONTARI	
CHECKED	APPROVED	DRAWING NO.	REV. E
#		D3121	SHEET 2 OF 10
DATE		TITLE	SCALE
07.11.07		BRACKET ASSEMBLY	1:2

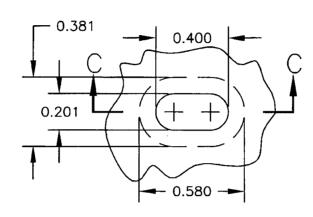


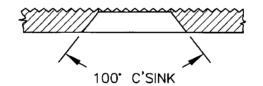
Copyright © 2002 by DART AEROSPACE LTD



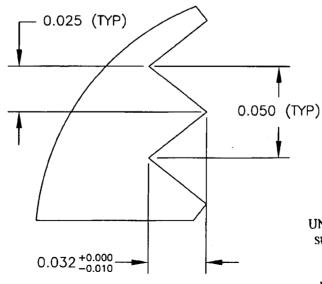
DESIGN	DRAWN BY	DART AEROSP HAWKESBURY, ONTAR	
CHECKED _	APPROVED,	DRAWING NO.	REV. E
#	- 	D3121	SHEET 3 OF 10
DATE		ΠΤΙΕ	SCALE
07.11.07		BRACKET ASSEMBLY	1:1

DETAIL A: SLOT DETAIL SCALE 2:1 VIEW ROTATED





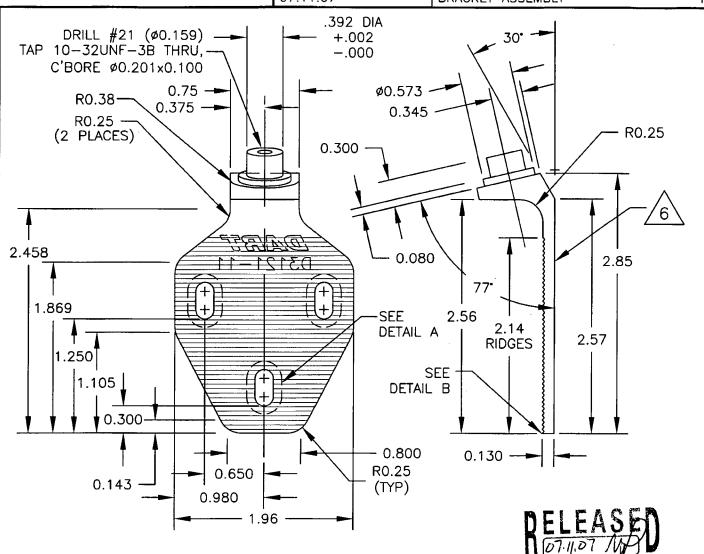
<u>DETAIL B:</u> RIDGE DETAIL PARTIAL SECTION SCALE 1:20



SHOP COPY RETURN TO ENGINEERING **UNCONTROLLED COPY** SUBJECT TO AMENDMENT WITHOUT NOTICE



DESIGN	DRAWN BY	•	OSPACE LTD ONTARIO, CANADA
CHECKED	APPROVED,	DRAWING NO.	REV. E
41		D3121	SHEET 4 OF 10
DATE		TITLE	SCALE
07.11.07		BRACKET ASSEMBLY	1:1



D3121-11 BRACKET

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

SHOP COPY **RETURN TO**

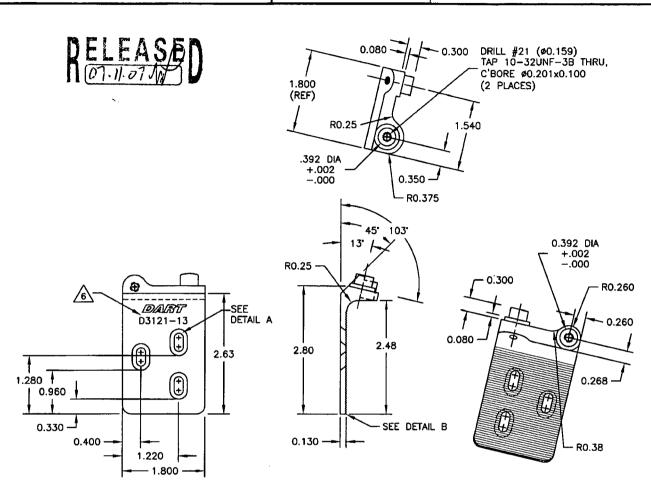
ENGINEERING

UNCONTROLLED COPY

SUBJECT TO AMENDMENT WITHOUT NOTICE



DESIGN DRAWN BY		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED	APPROVED	DRAWING NO.	REV. E	
4	 	D3121	SHEET 5 OF 10	
DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	



D3121-13 BRACKET (SHOWN) D3121-14 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)

MIN ULTIMATE TENSILE STRENGTH = 150 ksi

MIN YIELD TENSILE STRENGTH = 100 ksi

SHOP COPY

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

RETURN TO **ENGINEERING**

3) ALL DIMENSIONS ARE IN INCHES

UNCONTROLLED COPY

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

SUBJECT TO AMENDMENT

5) ENGRAVE DART P/N & LOGO AS SHOWN

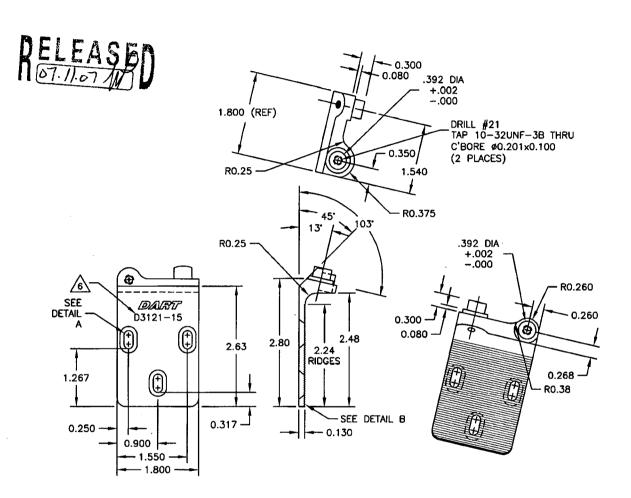
WITHOUT NOTICE

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

WORK ORDER



DESIGN #	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED	APPROVED	DRAWING NO.	REV. E	
94		D3121	SHEET 6 OF 10	
DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	



D3121-15 BRACKET (SHOWN) D3121-16 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) SHOP COPY

MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N AND LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

RETURN TO

ENGINEERING

UNCONTROLLED COPY

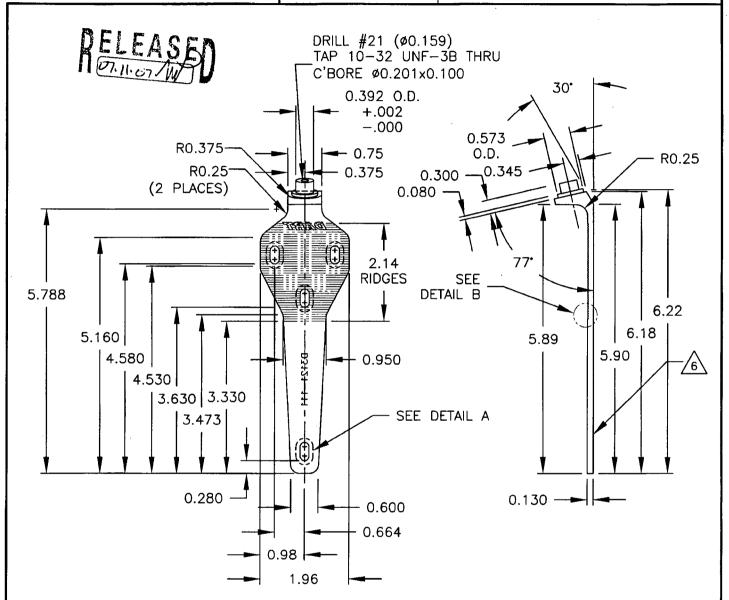
SUBJECT TO AMENDMENT

WITHOUT NOTICE

Copyright © 2002 by DART AEROSPACE LTD



DESIGN A DRAWN BY		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED _	APPROVED	DRAWING NO.	REV. E	
#	-	D3121	SHEET 7 OF 10	
DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	



D3121-111 BRACKET

1) REPLACES PREMIER P/N B32-23001-11

SHOP COPY

2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE = 150 ksi

RETURN TO

MIN YIELD TENSILE = 100 ksi

ENGINEERING UNCONTROLLED COPY

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHEWISE NOTED

SUBJECT TO AMENDMENT

4) ALL DIMENSIONS ARE IN INCHES

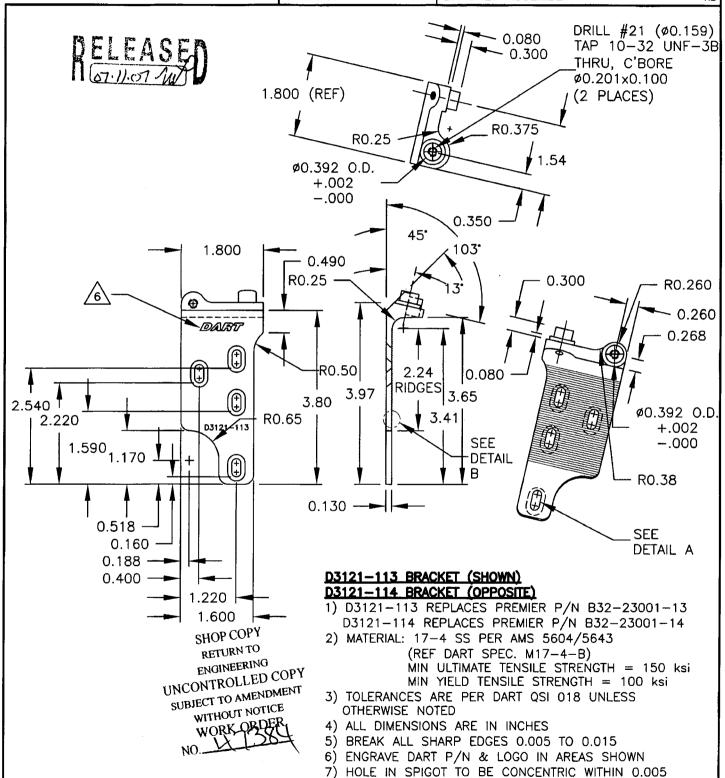
WITHOUT NOTICE

- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN
- 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

Copyright © 2002 by DART AEROSPACE LTD

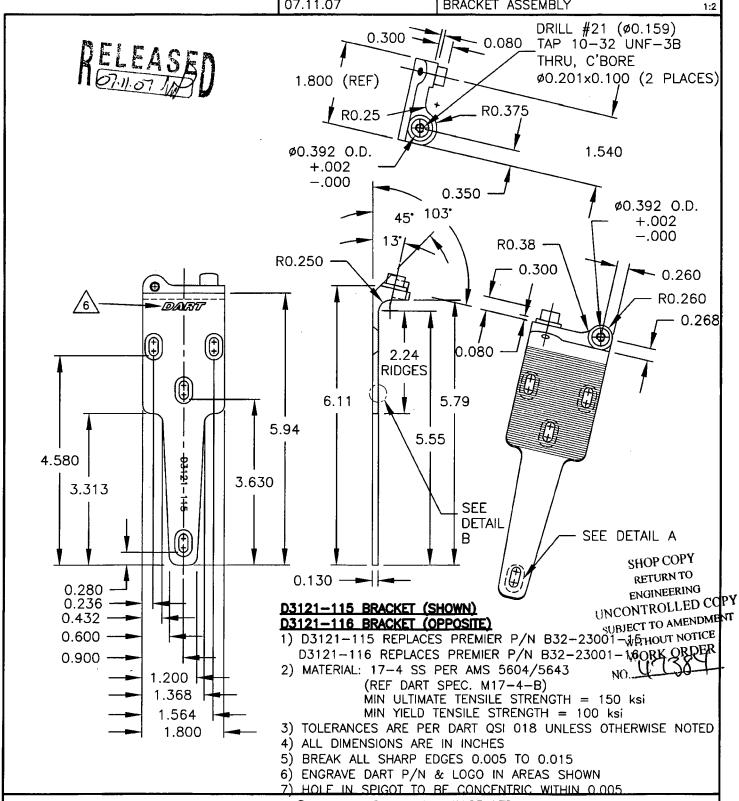


DESIGN	DRAWN BY	DART AEROSP HAWKESBURY, ONTAR	
CHECKED _	APPROVED	DRAWING NO.	REV. E
#	-	D3121	SHEET 8 OF 10
DATE		TITLE	SCALE
07.11.07		BRACKET ASSEMBLY	1:2



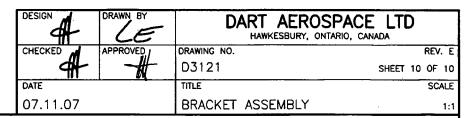


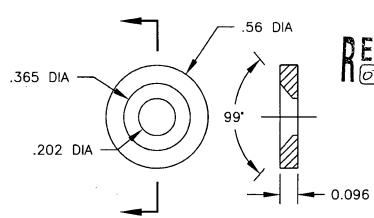
DESIGN	DRAWN BY		SPACE LTD INTARIO, CANADA
CHECKED _	APPROVED,	DRAWING NO.	REV. E
#	-	D3121	SHEET 9 OF 10
DATE		TITLE	SCALE
07 11 07		DDACKET ACCEMBLY	



Copyright © 2002 by DART AEROSPACE LTD

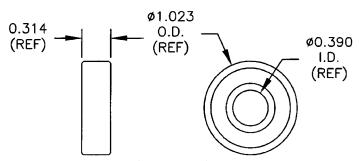






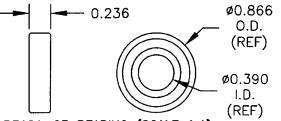
D3121-17 WASHER (SCALE 2:1)

- 1) REPLACES PREMIER P/N B32-23001-17
- 2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)
- 3) TOLERANCÈS ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-19 BEARING (SCALE 1:1)

- 1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM FAFNIR P/N 9100KDD
- 2) ALL DIMENSIONS ARE IN INCHES



D3121-23 BEARING (SCALE 1:1)

1) POSSIBLE SUPPLIER: SKF P/N 61900-2Z

OR KML P/N 6900-ZZ

0.080 0.050 TO 0.060 D3121-21 BOLT (SCALE 1:1)

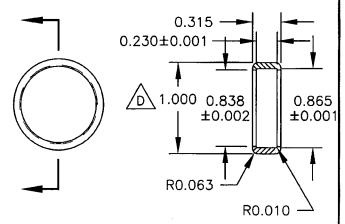
- 1) MATERIAL: AISI 303 SS HEX, ANNEALED (REF DART SPEC. M303H0.500)
- 2) FINISH: NONE

0.375 -

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

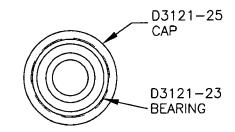
TAP 10-32 UNF-3A

- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-25 CAP (SCALE 1:1)

- 1) MATERIAL: DELRIN ROD, Ø1.25 (REF DART SPEC. M-DELRIN-R1.250)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES



03121-241 BEARING ASSEBLY (SCALE 1:1)

Copyright @ 2002 by DART AEROSPACE LTD

SHOP COPY

RETURN TO
ENGINEERING
UNCONTROLLED COPY

SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORKLORDER